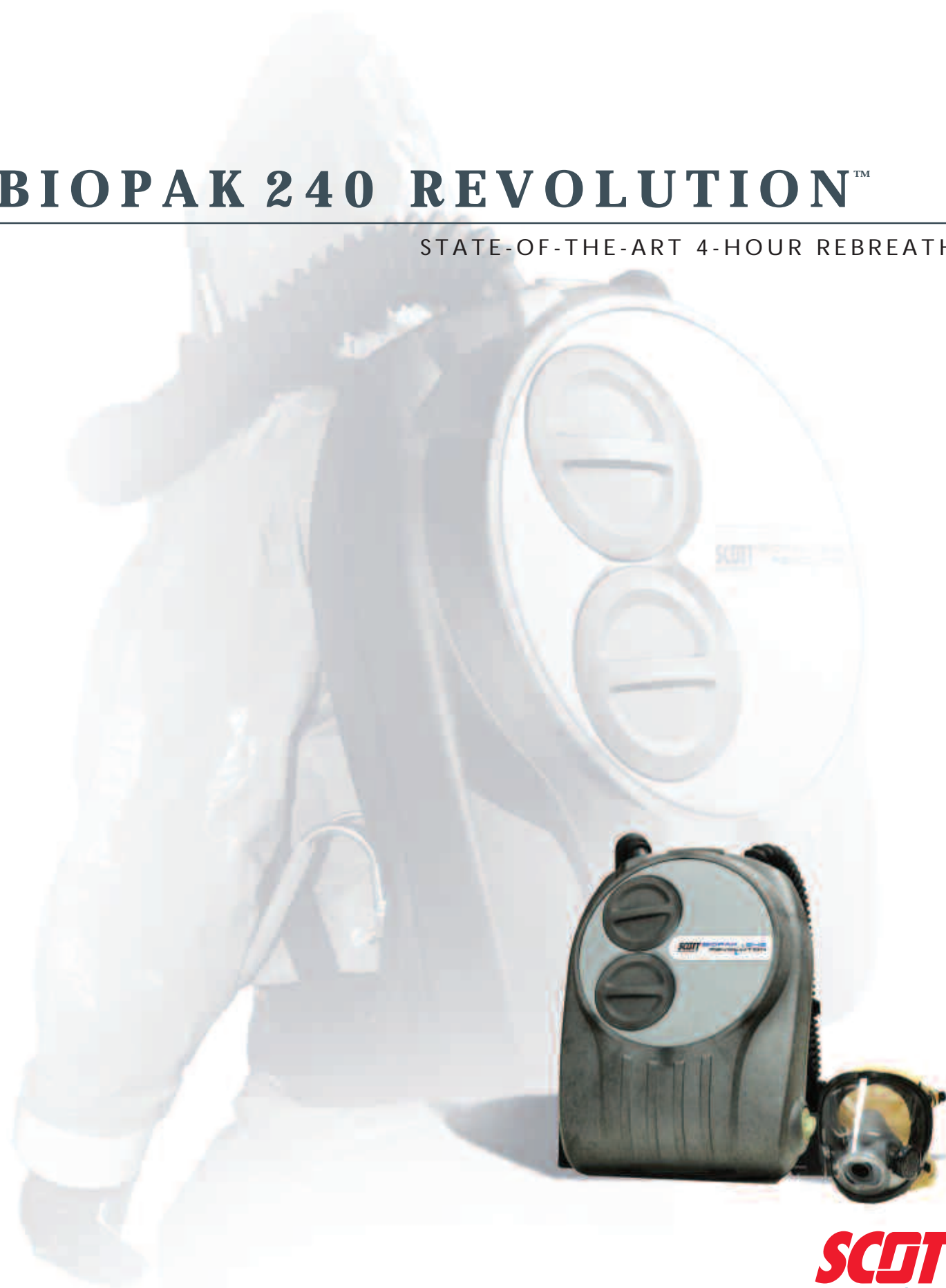


# BIOPAK 240 REVOLUTION™

STATE-OF-THE-ART 4-HOUR REBREATHER



**SCOTT**  
HEALTH & SAFETY



# THE BIOPAK 240 REV

## REVOLUTIONARY 4-HOUR REBREATHER FOR

The Scott BioPak 240 Revolution Rebreather was developed to protect first responders who put their lives on the line in long-duration, dangerous and demanding conditions. Whether it's a collapsed building, tunnel rescue, industrial accident, HAZMAT clean up, or urban search and rescue operation, the BioPak 240 helps those who serve and protect to do a better, safer job.

The innovative BioPak 240 Revolution is the most highly advanced, easiest to use 4-hour rebreather. With 6 liters of tidal volume, it delivers the lowest resistance breathing of any rebreather available today. The BioPak 240 Revolution cuts return to service time by 50%. A revolutionary, solid CO<sub>2</sub> scrubber design eliminates the need to measure and refill CO<sub>2</sub> absorbent as well as potential for refilling errors.

### Easy Breathing

High volume, low resistance breathing means more comfort and less stress:

- Lowest closed-circuit breathing resistance available at all work rates, with 6 liters of tidal volume
- Large breathing chamber uses three springs for guaranteed positive pressure
- Vents only used air, reducing O<sub>2</sub> and demand valve usage

### Rapid Deployment

Revolutionary, solid CO<sub>2</sub> scrubber design enables a super-fast deployment.

- New, quick-change cooling system lets personnel return to the job faster
- Cuts return to service time by up to 50%
- Change out cooling canisters while unit is being worn, without breaking into the breathing loop or removing the external housing
- Eliminates manual measuring and refilling of granular CO<sub>2</sub> absorbent

### Greater User Safety and Comfort

Designed to keep personnel safer, more comfortable, and fully aware of operational status:

- Optical warnings for low battery, coolant installation status, and 25% to end of service
- Radio interference shielding
- Lighter weight, more comfortable to wear
- Flame-rated harness available



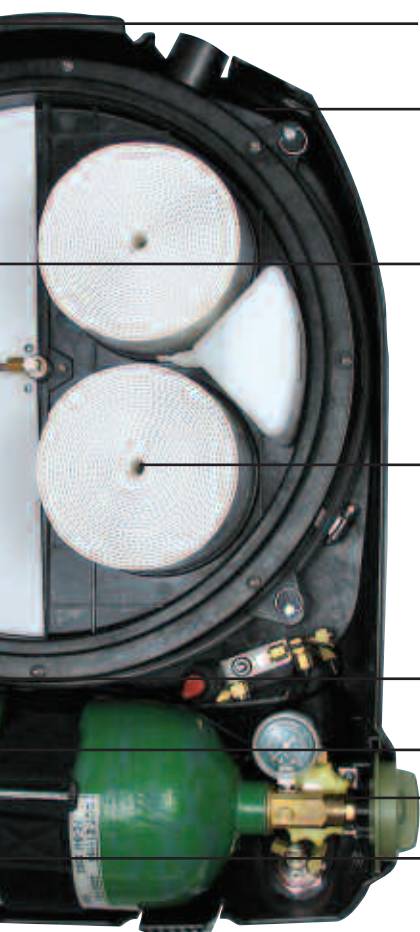
# OLUTION

## DEMANDING APPLICATIONS



### SEE YOUR WAY CLEAR – THE AV-3000™ FACEPIECE

The BioPak 240R features the inventive Scott AV-3000™ Facepiece. This sleek, low profile facepiece provides better downward and peripheral vision to improve safety and job performance. Three exclusive Comfort Seal™ sizes and a nosecup uniquely designed for comfort, put the ease of fit-testing and wearing the AV-3000 Facepiece in a class by itself. With a four-point adjustable head harness and optional dual adjustment spectacle kit, donning and doffing is quick and easy. And, no 21st-century facepiece is complete without state-of-the-art communications. The AV-3000 Facepiece features large, dual voicemitters for clearer communications, and dual mounting brackets that allow for communication interface on either side of the facepiece. An optional magnetic facepiece lens wiper promotes internal and external surface wiping with a single pass, with no pass-throughs required to operate the wiper.



*Large breathing chamber incorporates three springs for guaranteed positive pressure.*

*Vents only used air, reducing overall oxygen need and demand valve usage.*

*Sensor-monitor reminds user if frozen coolant canisters have not been installed prior to use.*

*Easy to replace, disposable, solid CO<sub>2</sub> absorbent.*

*Pneumatic pressure gauge displays O<sub>2</sub> status.*

*Alarm sounds when oxygen supply reaches 25% to end of service.*

*Easy to use “bump-proof” knob prevents accidental cylinder actuation.*

*Fiber optic warning signals: normal operation, low battery, possible missing cooling canisters, and 25% to end of service.*



# RESPOND WITH CUT

WHAT ELSE WOULD YOU EXPECT FROM THE

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*“With patented, cutting edge technology and state-of-the-art safety and performance, the Scott BioPak 240 Revolution represents the most significant advancement in closed-circuit, self-contained breathing apparatus technology in over a decade.”*

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## **Quick Change Cooling System**

The quick-change cooling system allows you change out the cooling canisters while the unit is being worn without breaking the breathing loop or removing the external housing. Designed for improved safety, developed for reliability, this revolutionary new breathing apparatus will out-perform any other unit on the market. Simply twist off the external lids, swap out frozen canisters, and replace the lids.

## **Faster, Easier CO<sub>2</sub> Scrubber Refresh**

BioPak 240R's patented and unique scrubbers feature solid CO<sub>2</sub> absorbent packaged in disposable cartridges. They are easier to replace than granular absorbent, which requires precise measuring, refilling, and resealing of a canister. The 240R's solid absorbent cartridges make for faster deployment. They will not channel, dust or settle during usage or transportation, and they eliminate the potential for refilling errors.



# TING EDGE TECHNOLOGY

## LEADERS IN SCBA'S

### Enhanced Ergonomic Design

With a low profile body-contoured design, the BioPak 240 Revolution is very comfortable to wear and simple to use, with all controls and displays easily accessible:

- Slim profile – can be comfortably worn under protective gear without restricting movement
- Fully padded ergonomic harness positions the unit on the hips instead of the shoulders, reducing operator fatigue
- Harness can be easily adjusted to fit
- Moisture generated within the system during use is retained, limiting the amount reaching the facepiece

### Designed For Improved Safety

The BioPak 240R gives the user every safety advantage:

- Stainless steel fiber-reinforced housing provides for a mechanically and electronically robust design
- Hardened breathing chamber
- "Bump-proof" knob prevents accidental O<sub>2</sub> cylinder actuation
- Manual quick disconnect prevents O<sub>2</sub> loss if the gauge line is damaged
- Electronic alarm sounds when the supply reaches 25% of service life
- Flame-rated harness available



### CONTINUAL USER FEEDBACK

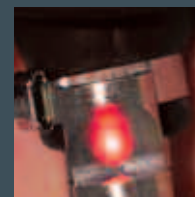
The BioPak 240R keeps the user completely aware of unit status and oxygen supply:

Temperature sensor alerts user to check if coolant canisters were installed at start-up

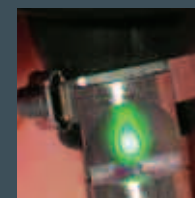
Audible alarm for low O<sub>2</sub> and battery

Pneumatic pressure gauge monitors O<sub>2</sub> status and sets off alarm at 25% of service life

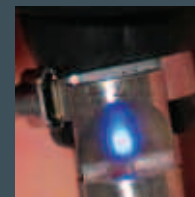
LED warning display in the gauge housing provides color-coded alerts for normal operation, low battery, possible lack of coolant canister installed, and 25% to end of service



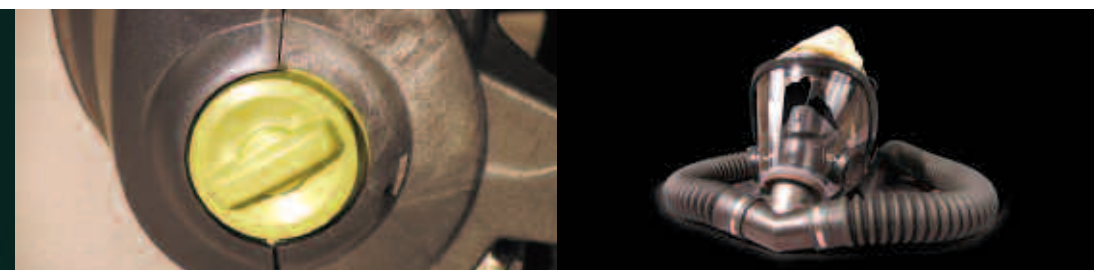
Alarm  
Condition



Status  
OK



Insert Coolant  
Canister







# EASY TO OPERATE, EASY

FOR EXTENDED DURATION PROTECTION W

## Less Expensive To Own

The BioPak 240 Revolution is designed to deliver lower cost, extended reliability, and easy maintenance. The 240R has a lower initial purchase price, costs less to maintain, and provides a lower total ownership cost than any other closed-circuit, positive pressure, four-hour rebreather. No mandatory replacement parts or factory rebuilds are required for the life of the unit.

- Lower initial purchase price
- Lower maintenance costs
- Lower total cost of ownership

The BioPak 240 Revolution features fewer parts for quick servicing. Service access is simplified with an easy-to-operate latch system and easy-to-remove breathing chamber.

- Easy-to-operate latches
- Easy-to-remove breathing chamber
- Threaded positive cylinder connection

## Tough, Rugged Construction

To withstand the most rugged use, the 240R's housing features stainless steel fiber-reinforced polymer construction. The simplified internal plumbing design reduces pneumatic tubing and connections, dramatically improving reliability and reducing overall weight. A positive connection between air cylinder and valve assures correct alignment and a secure connection. All hoses, housing, facepiece, and outside materials are made of flame-rated materials.

- Stainless steel fiber-reinforced polymer construction
- Reduced tubing and connections
- All electronics are internal
- Flame-tested components
- Material selected for electromagnetic immunity



# TO MAINTAIN

WHEN AND WHERE YOU NEED IT



## New Challenges Demand New Solutions

Tragic events such as building and bridge collapses as well as the potential devastation caused by the threat of WMD and CBRN weapons present complexities of response for today's first responders. Fire service, EMS and law enforcement personnel are called upon for immediate and coordinated efforts...and they demand reliable life saving equipment to complete their missions in a safe and effective manner. The 240R represents the most significant advancement in closed-circuit, breathing apparatus technology in over a decade and offers extended duration respiratory protection for the most unpredictable situations.

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*"The Scott BioPak 240 Revolution was developed with direct input from the people who put their lives on the line doing their jobs. We relied on their ideas throughout our design, engineering, and field-testing phases. As a result, the BioPak 240 Revolution rebreather offers easier breathing, better ergonomics, enhanced safety, faster deployment, and lower service costs."*

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## APPLICATIONS INCLUDE:

Trench / Tunnel Rescue  
HAZMAT Teams  
Domestic Preparedness Response  
Homeland Security Issues  
Power Plant Emergencies  
WMD/Counter-Terrorism Operations  
Search, Rescue, and Recon  
Urban Search & Rescue  
Confined Space Situations  
Building Collapse Search  
Special Operations  
Bomb Squads  
SWAT Teams



# ORDERING INFORMATION

## FOR BIOPAK 240 REVOLUTION™ REBREATHER

BioPak 240 Revolution Rebreather and Facepiece Ordering Information	
Part Number	Description
S7-07-2401-02-0	NIOSH Certified, Flame-Rated Harness, Green O2 Cylinder
S7-07-2401-04-0	NIOSH Certified, Standard Harness, Green O2 Cylinder
S6-02-5002-09-0	NIOSH AV-3000™ Facepiece, Small
S6-02-5002-09-1	NIOSH AV-3000™ Facepiece, Medium
S6-02-5002-09-2	NIOSH AV-3000™ Facepiece, Large

Respirator Top Assembly includes: (i) Respirator Assembly, (i) Facepiece Anti-Fog Spray, (i) Monitor System 9V DC Battery, (i) User Manual - English, (i) Benchman User - English, (2) Ice Canister Freeze Forms with Ice Canisters installed. All packaged into a cardboard/foam shipping carton.

BioPak 240 Revolution Rebreather Accessories and Supplies	
Part Number	Description
B5-01-5000-00-0	Carbon Dioxide Scrubber
B6-02-5002-63-0	Hard Carrying Case
B6-02-5002-16-0	Service/Test (tool kit)
B6-02-5000-42-0	Disinfectant, Carton of 75
B2-02-7000-39-0	Soft Carrying Case

### Specifications:

**Weight:** 33 lbs. (15 kg)

**Dimensions:** 23.0" L x 17.3" W x 7.0" D  
(584mm X 439mm X 178mm)

**O<sub>2</sub> Cylinder:** 440L @ 3000 psig (207 Bar)  
Medical / Aviation grade O<sub>2</sub>

**Duration:** 4 hours (240 mins) Certified

**Contents:**

- BioPak 240 Revolution Unit
- Scott AV-3000™ Facepiece  
(ordered as a separate line item  
to indicate size of facepiece needed)
- Cooling Canisters (2)
- Anti-Fog Solution
- Users Manual
- Benchman's Manual

**Approvals:**

- NIOSH
- MSHA
- EN-145/136

*Scott Health & Safety is a global business unit of Tyco International that supplies a variety of industries through manufacturing facilities located in the United States, United Kingdom, Asia, Finland, and Australia.*

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REBREATHERS

**NEUTRONICS** INC.

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